

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of the Claims**

1. (Previously Presented) A manufacturing process for a microwave corrugated-horn antenna comprising a horn, an impedance adapter, and a polarizer, comprising the steps of:  
thermoforming the corrugations of the horn on the external surface of a first section of a block of foam of conical shape in order to form the horn,  
thermoforming a circular groove on the external surface of a second section of the block of foam in order to form an impedance adapter, and  
thermoforming two radial slots on the external surface of a third section of the block of foam in order to form a polarizer,  
wherein the thermoforming of the three sections of the block of foam is carried out in a single step using a single mold, and  
metallizing the surfaces of the three sections of the conformed block of foam in order to form the antenna.
2. (Cancelled)
3. (Cancelled)
- 4 – 8. (Cancelled)
9. (Previously Presented) The manufacturing process of claim 1 wherein the metallization of the surface of the block of foam is carried out by a process selected amongst projection, using a brush, or dipping.
10. (cancelled)